

RAJNOCH, M.

What should be improved in the SKEM-3 combine. p. 476.
Let us make work easy for those in animal husbandry. p. 4 of cover.

MECHANISACE ZEMEDELSTVI. Praha. Vol. 4, no. 24, Dec. 1954.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956

RAJNOHA, C. ; JANICEK, F.

Steam generators for fermentation chambers. p. 135.

TECHNIKA VUIYUPU, MLYNARSTVI A PEKARSTVI. (Ministerstvo potravinarskeho
prumyslu a vykupu zemedlskych vurobku a Sdruzeni mlynu a pekaren)
Praha, Czechoslovakia, Vol. 5, no. 3, Mar. 1959.

Monthly List of East European Accession (EEAI), LC Vol. 9, no. 2,
Feb. 1960.

Uncl.

ROSTIVAL, L.

SURNAME (in caps); Given Names

Country: Czechoslovakia

Academic Degrees: /Not give/

Affiliation: Institute of Hygiene (Ustav hygieny), Faculty of Medicine
(Lekarska fakulta), Comenius University (Komenskeho univerzita), Bratislava.

Source: Prague, Ceskoslovenska Hygiena, Vol VI, No 5, 1961, pp 287-294.

Data: "Health Protection in the Production of Intration."

Co-author:

RAJNOHA, F., Municipal Public Health and Epidemiology Station
(Mestska hygienicko-epidemiologicka stanice),
Bratislava.

, 80

RAJNOVIC, M.

"Problems of military air bases."

p. 684 (Vojno Delo) Vol. 9, no. 10/11, Oct./Nov. 1957
Belgrade, Yugoslavia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

RAJNVAJN, Jelena, ing., asistent (Beograd, Kornelija Stankovica 9/I);
JEZDIC, Vojislav, ing., asistent

Application of branded organic compounds in industry. Tehnika Jug 16
no.11:1905-1908 '61.

1. Institute for Nuclear Science "Boris Kidric", Beograd-Vinca.

JEZDIC, V.; RAJNVAJN, J.

Synthesis of urea-¹⁴C and thiourea-¹⁴C. Bul Inst Nucl 12:127-130
0 '61.

1. The Institute of Nuclear Sciences "Boris Kidrich," Labelled
Compound Department, Vinca.

DIZDAR, Z.; RAJNVAJN, J.

Distribution of nitric acid between water and some binary organic mixtures. Bul Inst Nucl 11:181-188 '61.

1. Institute of Nuclear Sciences "Boris Kidrich," High Activity Department, Vinca. 2. Editor, "Bulletin of the Institute of Nuclear Sciences 'Boris Kidrich'" (for Dizdar).

JEZDIO, V.; RAJNVAJN, J.

Synthesis of labeled compounds in the Boris Kidric Institute of Nuclear Sciences; abstract. Glas Hem dr 27 no.9/10:530 '64.

1. The Boris Kidric Institute of Nuclear Sciences, Hot-Laboratory Department, Belgrade-Vinca.

DISCARD 2:

or (last name, first name); Given Name

Country: Yugoslavia

Academic Degrees: not given

Affiliation: High Activity Department, Institute of Nuclear Sciences
"Boris Kidrich"

Source: Belgrade-Vintcha, Bulletin of the Institute of Nuclear Sciences
"Boris Kidrich", Vol 11, Mar 1961, pp 161-166.

Data: "Partition of Nitric Acid Between Water and Some Binary Organic
Mixtures."

Co-authors:

RAJNČIĆ, J., High Activity Department, Institute of Nuclear Sciences
"Boris Kidrich".

RAJNVAJN, JELENA K.

2264

INFLUENCE OF TEMPERATURE ON THE EXTRACTION OF URANYL NITRATE WITH TRIBUTYL PHOSPHATE AT VARYING CONCENTRATIONS OF NITRIC ACID.

Oliver S. Gal, and Jelena K. Rajnvaaj. Bull. Inst. Nuclear Sci. "Boris Kidrich" (Belgrade) 1, 43-5(1967) Mar.

The dependence of the mass partition coefficient (μ) of $\text{UO}_2(\text{NO}_3)_2$ on temperature (5° to 80°C) is determined for the system: aqueous solution of HNO_3 - 20% TBP (diluted with dibutyl ether), at different HNO_3 concentrations. It is found that μ decreases with increasing temperatures at all acid concentrations. For a definite concentration of HNO_3 , μ is logarithmically related to the temperature. Change in volume and optical transmittancy and decrease in the acidity of the aqueous phase show that the two phases chemically interact to an extent which rises with temperature and acid concentration. The limit of stability at 20°C is at 5M HNO_3 , but changes to 4M HNO_3 at 80°C . (auth)

pr. orig.

R 1150, 12.

10. Application of gear-type intermediate frequency filters in radio receivers. I. R. 16. Magyar Híradástechnika. Vol. 7, 1936, No. 3, pp. 76-85, No. 5, pp. 120-139, 31 figs.

2

The ever growing number of radio transmitting stations necessitates the improvement of selectivity in order to reduce cross talk to a permissible degree. For this purpose filtering circuits are used in the intermediate frequency stages of the receiving sets. This demand can be satisfied by Riegger filters which are treated in three categories by the author; first the general properties of Riegger circuits, second a simplified Riegger connection, and the third a perfected arrangement. For ameliorating the transmitting properties of filters dealt with in the first two instances two intermediate frequency stages are necessary, however by increasing the degree of the filter by even one stage satisfactory results can be achieved. For verification the points of minimum attenuation in the passover stage, the location of the poles in the locking area and the pole attenuations are mathematically determined. It is shown that the character of wave resistance is similar to that of the previously described filters. For the investigation of filter performance equivalent circuits are introduced, the design data are determined and the formula of service attenuation deduced by the use of which two design examples are presented. Finally the measuring results of a filter elaborated on the basis of the treated solutions are published.

11/1 am

RAJO, L.

Use of new type medium-frequency filters in radio receiving sets. p. 129.
(Magyar Híradástechnika, Vol. 7, no. 5, October 1956. Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 9, Sept. 1957. Uncl.

RAJO, L.

Use of new-type medium-frequency filters in radio receiving sets,
(To be contd.) p. 76, MAGYAR HIRADASTECHNIKA, (Hiradastechnikai
Tudomanyos Egyesulet) Budapest, Vol. 7, No. 3, June 1956

SOURCE: East European Accessions List (EEAL) Library of Congress,
Vol. 5, No. 11, November 1956

RAJÓ, L.

Wave filter theory of band pass filters in radio receivers — *Rádióvevőhészülékek szűrőirőlelnek Állam-
szelvénye* — L. RAJÓ, (Telecommunication Engineering
— *Magyar Híradástechnika* — Vol. 4, 1953, No. 4-6, pp.
82-92, 13 figs.)

Filters of input (modulator) and I. F. stages can be treated on the basis of the general filter theory. The design of filters in radio receivers is similar to that of filters used in transmission technique, therefore, the different type of filters, those coupled by inductances and those coupled by capacities, their attenuation, characteristic impedance and service attenuation in the pass band must be investigated. Based on the deduced formulae filters can be calculated for given cases. If the pass band is variable the frequency of the band middle also changes, this deviation is negligible for inductive coupling, however, detuning is essential for capacity coupling. Gy. T.

1950, L.

"Design of Differential Filters" p. 33, (GUDYAR NIKADASTECHNIKA, Vol. 1, no. 1/3, Jan./Mar. 1953, Budapest, Hungary)

SC: Monthly List of East European Accessions, L.C., Vol. 2, No. 11, Nov. 1953, Uncl.

LANCUEKI, Jan; RAJKOWSKI, Zdzislaw

Azulan therapy of inflammatory conditions of the skin. Przegl.
derm., Warsz. 46 no. 5: 485-488 S-O '59.

1. Z Kliniki Dermatologicznej A.M. w Warszawie. Kierownik: prof.
dr. S. Jablonska. Z Zakladu Farmakognozji A.M. w Warszawie. Kie-
rownik; prof. dr. J. Deryng
(DERMATITIS ther.)
(PLANTS MEDICINAL)

TABLE, P.

RASCH, I. György Iányi and Marton Wiesinger's Akvarisztika (Management of Aquariums); book review. p. 64.

Vol. 115, No. 3, Jan. 1956

INSTITUTION OF TECHNOLOGY

CHILTON

Buda pest, Hungary

See: East European Accessions, Vol. 5, No. 5, May 1956

GRAJNERT, K.; MAKAY, M.; RAJPERT, D.

Effect of mud liniments on the secretion of 17-ketogenic steroids in patients with ankylosing spondylitis. Postepy reumat. no.3:72-80 1957.

1. Z Instytutu Reumatologicznego. Dyrektor: prof. dr Eleonora Reicher.

(SPONDYLITIS, ANKYLOSING, urine in

17-ketosteroids, eff. of mud liniments (Pol))

(17-KETOSTEROIDS, in urine

in ankylosing spondylitis, eff. of mud liniments (Pol))

(LINIMENTS, eff.

mud liniments on urinary 17-ketosteroids in ankylosing spondylitis (Pol))

ROSTROPOWICZ-DENISIEWICZ, Katarzyna; LAZOWSKI, Zygmunt; RAJPERT, Danuta;
ZABOKRZYCKI, Julian.

Fractures in chronic progressive arthritis treated with glyco-
corticoids in children. Ped. Pol. 40 no.4:397-404 Ap'65.

1. Z Kliniki Pediatricznej Studium Doskonalenia Lekarzy (Kie-
rownik: prof. dr. med. E. Wilkoszewski) ; z Zakladu Radiologii
(Kierownik: doc. dr. med. J. Zabokrzycki) ; z Sanatorium w
Konstancinie (Kierownik: dr. med. S. Rudzinski) i z Instytutu
Reumatologicznego w Warszawie (Dyrektor: dr. med. W. Bruhl).

GORSKI, Marian; BIELAWSKI, W.; BOROWSKA, S.; NIEMIRO, R.; RAJPERT, H;
TYMOSZESKA, B.; ZAGAIŃSKA, T.; (przy współudziale asystentki
technicznej A. SWIDERSKIEJ).

Research on water-mineral metabolism in liver cirrhosis. Polskie
arch. med. wewn. 28 no.4:579-583 1958.

1. Z I Kliniki Chorob Wewnętrznych A.M.G. Dyrektor; prof. dr med.
Gorski. Adres autora: Gdansk, Wrzeszcz, Curie-Skłodowskiej 4.
(LIVER CIRRHOSIS, metab.
water-mineral metab. (Pol))
(BODY FLUID BALANCE, in various dis.
water-mineral metab. in liver cirrhosis (Pol))

RAJPERT, T., mgr inz.

Airfield construction problems in the light of modern use of
aircraft and helicopters. Techn lotn 17 no.12:368-373 D
'62.

Rajpert, Tadeusz, mgr.inz.

Measurements and analysis of noise and sound vibrations. Pt.2.
Techn lotn 18 no.9:242-247 S'63

1. Stowarzyszenie Inzynierow i Technikow Komunikacji, Warszawa.

L 11000-03

BDS/ES(a)/ES(j)/ES(c)/ES(k) AWD/AFFTC Pb-4 A/DD

P/0008/63/000/04-/0119/0127

ACCESSION NR: AP3001793

AUTHOR: Rajpert, Tadeusz (Graduate Engineer)

TITLE: Measurement and study of noise and vibrations

SOURCE: Technika lotnicza, no. 4-5, 1963, 119-127

TOPIC TAGS: aircraft noise., human hearing, aircraft vibration

ABSTRACT: The problem of noise and vibration caused by aircraft engines and their effect upon the human ear and its physiological implications are discussed. The basic physical parameters of oscillating motion in air are described and summarized in Fig. 1 and Table 1. The hazard criterion of damage to the human hearing organ as proposed by Doctor Kryter is presented in Figs. 2 and 3. Loudness levels according to Fletcher, ranging from threshold of audibility to that of pain sensation are the subject of Fig. 4. Author concludes that the sound intensity at or beyond the latter threshold may cause ear bleeding, dizziness, breathlessness and even serious damage to the audible organ. The physiological perception of vibrations and the interactions of oscillations and vibrations upon the human organism are analyzed. The analysis is based on the threshold of excitation of

Card 1/2

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L 19382-63

ACCESSION NR: AP3001793

vibration reactions as well as the threshold beyond which oscillations and vibrations become insupportable to the human organism. These results are summarized in Figs. 11 and 12. The characteristics and magnitudes of noises-originating from specific aircraft engine parts are also discussed and analyzed. Suggestions for reducing their effect are offered. Orig. art. has: 12 figures, 12 formulas and 6 tables.

ASSOCIATION: Stowarzyszenie Inzynierow i Technikow Komunikacji (Association of Transportation Engineers and Technicians)

SUBMITTED: 00

DATE ACQ: 21Jun63

ENCL: 00

SUB CODE: AM

NO REF SOV: 000

OTHER: 000

Card 2/2

RAJPERT, Tadeusz, mgr inż.

Noise caused by combustion gas flow. Pt. 1. Techn letn 19 no.10/11:
272-282 O-N '64.

1. Association of Transportation Engineers and Technicians, Warsaw.

RAJPERT, T., mgr. inz.

Airfield construction in the light of requirements of the
operation of modern airplanes and helicopters. Pt. 2. Techn
lotn 17 no.5:150-152 My '62.

RAJPERT, Tadousz, mgr. inz.

Airfield construction in the light of requirements of the operation of modern airplanes and helicopters. Pt. 1. (To be contd.). Techn lotn 17 no.4:105-112 Ap '62.

1. Stowarzyszenie Inzynierow i Technikow Kommunikacji, Warszawa.

RAJPERT, T., mgr. inż.

Noise caused by modern aircraft engines and means of its control.
Pt.1. (To be contd.) Techn lotn 16 no.11:275-283 N '61.

1. Kolo Zakladowe, Stowarzyszenie Inzynierow i Technikow
Komunikacji, Warszawa.

RAJPERT, T., mgr. inz.

Noise caused by modern aircraft engines and means of its control. Pt.2. Techn lotn 16 no.12:307-315 D '61.

1. Kolo Zakladowe, Stowarzyszenie Inzynierow i Technikow Komunikacji, Warszawa.

RAJPERT, T., mgr inz.

Problems of airport construction in the light of utilization
of contemporary aircraft and helicopters. Techn lotn 17
no.11:327-336 N '62.

P/005/63/000/007/001/002
D204/D307

AUTHOR: Rajpert, Tadeusz, Master of Science, Engineer

TITLE: Methods of reducing passengers' time losses

PERIODICAL: Przegląd Techniczny, no. 7, 1963, 7

TEXT: Problems connected with reducing passengers' time losses at airports to a minimum are considered, quoting Western airports as examples. Cutting the time spent on the passengers' journey to the airport by $7\frac{1}{2}$ min and the time spent on formalities at the airport by $7\frac{1}{2}$ min will result in a total saving of 30 min. No specific conclusions are offered. There are 3 figures. ✓

Card 1/1

... ..,, (colony)

... .. of jet aircraft and the problem of noise. Letecky
... .., by

W. J. ...

... the ...

L 41322-65 EWT(1)/EWP(m)/EWA(d)/FCS(k)/EWA(1) Pd-1

ACCESSION NR: AP5000712

P/0008/64/000/10~/0272/0282

AUTHOR: Rajpert, T. (Master engineer)

TITLE: Noise produced by the flow of combustion gases

SOURCE: Technika lotnicza, no. 10-11, 1964, 272-282

TOPIC TAGS: aircraft noise, combustion gas, exhaust gas, subsonic gas flow, airport noise, jet velocity

18
6

7

ABSTRACT: The paper discusses the problem of noise, external to an aircraft, generated by combustion gases flowing at a subsonic speed from the exhaust nozzles of aircraft engines. The discussion is made from the standpoint of airport ground crews. The following subjects are discussed: characterization of the flow of exhaust gases, the radial distribution of velocities of axially symmetrical exhaust gas jets (like those from aircraft jet engines) at different distances from the nozzle, mathematical analysis of the relationships existing between the jet velocity and the distance from the nozzle, the gas flow geometry, the mechanism of the turbulent flow of jets, the mean value of the function of turbulence and four methods of evaluating it, statistics of turbulent pulsations and mixing, turbulence and pressure field around jets, Lighthill's theory and

Card 1/2

L 41322-65

ACCESSION NR: AP5000712

the relationship between velocity and pressure pulsations, the dependence of the absolute noise power of a free-flowing jet on the specific thrust of a jet engine, the effect of jet temperature and velocity on the noise power and frequency characteristics, and the noise directivity of jets. On the basis of experimental investigations made so far and the theoretical work discussed here, the first half of the paper ends with 10 conclusions of particular interest to airport ground crews. Orig. art. has: 14 figures, 53 formulas and 2 tables.

ASSOCIATION: SIITK, Warsaw

SUBMITTED: 00

ENCL: 00

SUB CODE: AC

NO REF SOV: 000

OTHER: 000

Card 2/2

RAJPERT, Tadeusz

Warsaw, Technical Literature, Vol. XVII, No. 4, April 1972

1. Information on the Activities of the Civil Working Committee for the Formation of Regulation on the Construction of Single and Class Aircraft, "Zagadnienia Techniczne, Ministerstwo PP 77-72.

2. Principles for the Selection of Parameters for Diesel-Pum Turbine Engines, "Naczelny Instytut, Ministerstwo PP 70-104.

3. Problems of Aircraft Construction in view of the Use of Modern Aircraft and Helicopters, Part 2, "Problemy Konstrukcji Samolotow i Helikopterow, Instytut Lotnictwa, Ministerstwo PP 77-72.

4. Construction of Blades by Means of Automatic Soldering, "Automatyzacja, Ministerstwo, and Technologia, Ministerstwo PP 77-72.

5. The Results of the 15th Anniversary of the Aviation Industry (Industry Literature), "Unigraf, PP 11-122.

CCOI: JOW: A
1968

— 1/1 —

ACC NR: AP6020394

SOURCE CODE: PO/0102/66/000/001/0006/0011

AUTHOR: Rajpert, Tadeusz (Master engineer)

ORG: none

TITLE: Fighting of noise caused by the flow of exhaust gases

SOURCE: Technika lotnicza i astronautyczna, no. 1, 1966, 6-11

TOPIC TAGS: *airport* exhaust gas, acoustic insulation, insulating material, noise, *modulation,* sound wave

ABSTRACT: Damping of noise waves from exhaust gases on air ports and in their vicinity is discussed, emphasizing the penetration of noise through the walls and to the interior of buildings, permeation of walls by noise generated inside of buildings by startup of engines, testing in hangars, and similar operations, and the appropriate construction of buildings and walls. A review of mainly published models and formulas is presented for calculating the efficiency of acoustic insulations and the penetrating effect of sound waves. Experimental results on the use of various building materials and their combination and dimensional factors are tabulated and correlated with acoustic impact and damping efficiency. Frequency effects on damping are discussed and graphically correlated. Difficulties encountered in decreasing noise levels are caused particularly by the wide variation in frequencies of exhaust noise and the corresponding resonance of mechanical parts and by the irregularity of type of noise even at the normal operation of engines. Maximum sound levels are usually gen-

UNCLAS 804-80:621

ACC NO. 005020394

erated during startup by the impact of exhaust gas upon the solid air mass, although for some constructions and conditions maximum effects are due to the reflection of air waves by the surface of the airport. Orig. art. has: 35 figures, 20 formulas, and 2 tables.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 004/ SOV REF: 000/ OTH REF: 013

Card 2/2

JOKANOVIC, Dobrivoje; RAJS, Jovan

Fetal bones in medicolegal practice. Srpski arch. celok. lek.
91 no.11:1047-1054 N°63

1. Institut za sudsku medicinu Medicinskog fakulteta Univerzitetu u Beogradu. Upravnik: prof. dr. Julijana Bogicevic.

*

RAJSIC, Radomir, Potpukovnik dr.

Physiological problems of pressurized aircraft cabins. Voj.
san. pregl. Beogr. 13 no.11-12:581-588 Nov-Dec 56.

1. Vazduhoplovni medicinski institut, KJRV.
(AVIATION, MEDICINE,
pressurized aircraft cabins, physiol. aspects (Ser))

RAJSIC, Radomir, sanitetski potpukovnik dr

Contribution to the treatment of certain diseases by means of
simulated altitude in pressure chambers. Voj.san.pregl., Beogr.
17 no.12:1291-1298 D '60.

1. Vozduhoplovnomedicinski institut u Zemunu
(ATMOSPHERIC PRESSURE)

S/262/62/000/002 010/017
1008/1208

AUTHOR: Rajsigl, František and Medo, Desider

TITLE: A valve for braking by means of the engine

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustanovki, no. 2. 1962, 55, abstract 42.2.305. P. Czech. patent, class 46b¹, 23, 63c, 51/13, no. 92471, October 15, 1959

TEXT: A design is proposed of a double valve installed in the cylinder head of a four stroke engine. The valve head can move within certain limits along the stem. The stem is made as a second valve and has a thickening on the valve head. As braking is commenced a lever from the driver's cabin opens the valve completely and as braking is continued the stem moves partly and opens the second valve. Simultaneously the engine's fuel pump is disconnected. There are 3 figures. 

[Abstracter's note: Complete translation.]

Card 1/1

RAJSKI, A.

ANNALYS ZOOLOGICI. (Polska Akademia Nauk. Instytut Zoologiczny) Warszawa.
(Annals of the Zoological Institute, Polish Academy of Sciences. In English,
German, and Polish with Polish and Russian summaries. Title varies: before
1954, Warsaw. Panstwowe Muzeum Zoologiczne. Annales Musei Zoologici Polonici)

Two new species of moss mites (Acari, Oribatei) from Poland. p. 429.

Vol. 17, No. 12, Nov. 1958.

Monthly List of East European Accessions (EFAI), LC, Vol. 8, No. 3, March 1959
Unclass.

RAJSKI, Aleksander

The 1st Symposium of Polish Acarologists. Przegl zoolog 6 no.3:242-
245 '62.

RAJSKI, Aleksander

The irreversibility of evolution. Kosmos biol. 11 no.4:381-386
'62.

*

RAJSKI, Aleksander

Quantitative distribution of the most important intermediate hosts
of *Moniezia (M.) expansa* (Rud.) in the Poznan region. Wlad. parazyt.
7 no.1:39-42 '61.

1. Oddzial Instytutu Zoologicznego PAN, Poznan.
(TAPEWORM INFECTION veterinary)

RAJSKI, Aleksander

Observations on daily migration of moss mites (Oribatei, Acari).
Wiadomości parazyt., Warsz. 4 no.5-6:489-490; Engl. transl. 490-491
1958.

1. Z Instytutu Zoologicznego PAN Oddział w Poznaniu.

(MITES,

Oribatei, migration (Pol))

13C

Displacement of the Hg resonance line,
 2536 Å. S. RAJSKI (Physikal. Z. Sovietunion,
 1937, 12, 334-338).—The displacement of the max.
 of the resonance line of Hg has an upper val. of
 0.1 Å. at 7.2 atm. and 500°. R. S. B.

ASIA SLA METALLURGICAL LITERATURE CLASSIFICATION

RATSKI, C.

1000

021.314.21 : 012.8

Rajski C. A Simple Half-Adder.

"Transformatorowa realizacja różnicy symetrycznej". Archiwum Elektrotechniki (PAN). No. 3, Warszawa, 1955, PWN, pp. 419-424, 10 figs., 1 tab.

Describes the circuit of a simple unit, corresponding to the Boolean symmetric difference based on the use of the transformer with centre-tapped primary and secondary windings. The advantages resulting from the incorporation of this unit into computing circuits are illustrated by various examples. The operating difficulties due to the possible inequalities of the pulse shapes arriving at the input of the transformer may be overcome either by the use of an appropriate core material or by a suitable pulse shape controlling circuit at the output.

BS
rem/30
R22

3.1.1.1.

1. verification of a job's end concerning the relations consisting of items
marked by contribution. p.171

2. 1964-1965. 1965 (1965) 1965-1966. Institute for research in Moscow
Vol. 1, no. 2, 1965

3. 1964-1965. 1965-1966. Vol. 1, no. 1. September 1964

Rajski, C.

✓ Rajski, C. Comparing general populations on the basis of Bayes' rule. Zastos. Mat. 1, 330-341 (1954). (Polish. Russian and English summaries)

MS

Let Π_1, Π_2 be two dichotomized populations, w_1, w_2 fractions of individuals of one kind in these populations, n_1, n_2 the sizes of samples obtained from Π_1, Π_2 , and r_1, r_2 the numbers of individuals of the specified kind contained in these samples. Making the assumption that w_1, w_2 are themselves independent random variables, each uniformly distributed, and using Bayes' theorem, the author formulates procedures for "verifying" various hypotheses on w_1, w_2 , that is for computing the conditional probabilities that, given n_1, n_2, r_1, r_2 , the fractions w_1, w_2 satisfy these hypotheses.

Z. W. Birnbaum (Seattle, Wash.).

J. - F/W

1964-1965. - Zastosowania Matematyki. - Warszawa

Method of calculating the optimal size of a sample. p. 212

SO: Monthly list of East European Accessions List, (EEL), 1964, Vol. 4, No. 11

MAISON, C.

A simple adder. p.419
L'ESPECE HUMAINE (Poliste Alcedonide). Institut Fédéral de
Recherche Technologique
Vol. 7, no. 3, 1966

So. East European Accessions List

Vol. 6, No. 2

October 1967

Rajski, C.

Rajski C. Comparing General Populations on the Basis of Baynes' Rule.
„Porównanie populacji generalnych na podstawie twierdzenia
Baynes'a". Zastosowania Matematyki (PAN). No. 4, Warszawa-Wroclaw,
1954, PWN, pp. 330—341, 8 figs. PH

This paper contains a solution of the following problem: two general populations are given, each containing an unknown fraction of items marked in a certain way. Two samples are drawn at random, one from each population, and the numbers of marked items in each sample are checked. Now the problem is, how to verify on the basis of the samples any hypothesis which can be made about the relation between fractions of marked items in the two populations. The paper contains the general solution of this problem and Taylor's expansions of the probabilities of the hypothesis relating either to the difference or to the quotient of the fractions of the items marked. The particular formulae are based on the assumption of a uniform distribution of the prior probabilities.

RAJSKI, C.

"The theory of the cross-connected long line." p. 137. (ARCHIWUM ELEKTROTECHNIKI
Vol. 2, No. 1/2, 1953. Warszawa, Poland)

SO: Monthly List of East European Accessions. (EEAL). LC. Vol. 4, No. 4.
A pril 1955. Uncl.

Rajski C.

621.315.09 : 621.3.011.21.
✓4069. The theory of the cross-connected long line.
C. RAJSKI. Arch. elektrotech. [Warsaw] 2, No. 1-2,
1957-65 (1955) In Polish. Summary (4 pp.) in English.
The two terminals are one at the beginning of one
conductor and the other at the end of the second
conductor. A formula is derived for cross-im-
pedance of the line. Its applications to a parallel-
wire system with negligible losses and to a coaxial
cable with losses are discussed. Measurements on a
coaxial cable are in a reasonable agreement with
values calculated by the formula. Theory may be
applied in design of cross-connected lines having im-
pedances analogous to those of aerials, calculation
of frequency ranges of spirally-wound condensers and
in design of transmitter aerial circuits.

J. LUKASZEWICZ

RAJSKI, C., and others

(PRZEGLAD ELEKTROTECHNICZNY, Vol. 27, No. 7/8, Aug. 1951, Warszawa, Poland)

"Technical progress in the telecommunication industry under the Six Year Plan." p. 271.

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L.C., Vol. 3, No. 4, April 1954

POLAND/Radio Physics - Statistical Phenomena in Radio Physics

I-2

Abs Jour : Ref Zhur - Fizika, No 12, 1958, No 23113

Author : Rajski G.

Inst : Warsaw Technical University, Warsaw, Poland

Title : Stochastic Gain of Nonlinear Four-Poles.

Orig Pub : Bull. Acad. polon. sci. Ser. Sci. techn., 1958, 6, No 1, 25-29, 111

Abstract : The author introduces formally the concept of the gain of a nonlinear four-terminal network, containing no reactive elements, with respect to stationary signals. If ξ and η are respectively the signals at the input and the output of the system, then by definition the gain is $S = T(\eta)/T(\xi)$, where $T(\xi) = b^{H(\xi)}$, $H(\xi) = - \int f(x) \log_b f(x) dx$ is the entropy of the signal ξ ($f(x)$ is the density of the probability distribution), and b is the base of the logarithm. In the case of a linear four-terminal network, when $\eta = K \xi$, this definition gives $S = K$. Along with the coefficient S , the authors consider the coefficient $s = \log_b S = H(\eta) - H(\xi)$.

Card : 1/2

RASKI, C.

16(2) P 5

PHASE I BOOK EXPLOITATION CZECH/2556

Conference on Information Theory, Statistical Decision Functions,
Random Processes. 1st, Liblice, 1956.

Transactions. Prague, Czechoslovak Academy of Sciences, 1957.
354 p. 1,000 copies printed.

Sponsoring Agency: Československá Akademie Věd. Sekce Technická.

Reviewers: Václav Dupač and Miloslav Jiřina; Scientific Ed.:
Jaroslav Kožešník, Corresponding Member, Czechoslovak Academy of
Sciences; Resp. Ed.: Ludek Böhm; Tech. Ed.: František
Končický.

PURPOSE: This book is intended for specialists interested in in-
formation theory and related subjects.

COVERAGE The book contains papers read at the First Prague Con-
ference on Information Theory, Statistical Decision Functions,
and Random Processes, held on November 28 - 30, 1956. The Con-

Card 1/5

Conference on Information Theory (Cont.)

CZECH/2556

ference was sponsored by the Czechoslovak Academy of Sciences and organized by the Institute of Radio Engineering and Electronics. The papers discuss various mathematical approaches to the problems of communications: information theory, probabilistic properties of communication, stochastic properties of communication, entropy, transformations of stochastic properties, statistical decision functions, randomized functional analysis, etc. Participants from China, Germany, Poland, Sweden, the United States, and the Soviet Union were present at the Conference. Of the 21 articles in the book, 14 are in English, 4 in French, 2 in German, and 1 in Russian.

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CZECH/2556

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AVAILABLE: Library of Congress

LK/11

Card 5/5

12-1-69

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On the normed information rate of discrete random variables. Zastos
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Rajski, C. The life-tests distribution functions. Zastos. 2
 Mat. 3 (1958), 323-328. (Polish. Russian and English
 summaries)

In the theory of life-tests it is commonly assumed that the probability distribution function of the length of the life is an exponential one. The present paper is concerned with a search for a wider class of distribution functions which can reasonably be used as life distribution functions. Under very general assumptions the following theorem is deduced: $F(x)$ is a life distribution function if $[1-F(x)]^{-1}dF(x)/dx$ is a distribution function of any kind.

Further it is proved that the above condition is fulfilled by the distribution function of the gamma type, defined in the following manner:

$$F(x) = \begin{cases} 0, & \text{if } 0 \leq x < c, \\ 1 - e^{-(x-c)} \sum_{j=0}^{r-1} (x-c)^j / j!, & \text{if } c \leq x < \infty, \end{cases}$$

with r natural and $c \geq 0$, except for the case when $r=0$ and $c=0$.

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✓ 2044. A SIMPLE HALF-ADDER USING A TRANSFORMER. 681.142 : 621.314.2
C. Rajski.

Arch. elektrotech. (Warsaw), Vol. 4, No. 3, 419-24 (1955).
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A new simple unit performing the operation of the symmetric difference (in Boolean Algebra) employs a transformer with centre-tapped primary and secondary windings. The advantages of this circuit for digital computers are indicated.

R. Syski

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Forty years of the Electric Engineering Department of the Warsaw
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Fodoski). 2. Dziekan Wydzialu Iacznosci, Politechnika, Warszawa
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November 8, 1961. Przegl elektrotechn 37 no.9:388 '61.

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2. Dziekan Wydzialu Elektrycznego Politechniki Warszawskiej (for Podoski)

(Poland---Technical education)

BOCHENEK, Krystyn, doc.; MANCZARSKI, Stefan, prof.; RAJSKI, Czeslaw, prof.;
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Phot. Acta 60, Suppl. 5 (1965) R discusses whether equal densities (or the corre-
 sponding latent impressions), in the production of which the only variable is the fre-
 quency of the exposing light, are to be considered identical, and whether deviations from
 algebraical summation of the effects of light of various frequencies play a part in practical
 photography. By the use of a neutral wedge with opaque strips he shows that an
 impression by the shorter, and also one by the longer (namely, the light fog beneath the
 opaque strips), waves of white light can be observed on one and the same, non-color
 sensitized plate. On long subsequent exposure to monochromatic Na light the 2 im-
 pressions behave differently, the Na-light impression adding normally to that of the
 shorter, but less than normally to that of the longer, waves. Thus, it is considered,
 indicates 2 different kinds of Ag nucle *practically*, R. recommends the use of a blue
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(Threonine)

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Synthetic experiments in the group of hypotensive alkaloids. VI.
Some notes on the preparation of alicyclic components in the
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1. The first part of the document is a letter from the Director of the Central Intelligence Agency to the President of the United States. The letter is dated 11/11/61 and is addressed to the President. The letter is signed by the Director of the Central Intelligence Agency.

2. The second part of the document is a letter from the President of the United States to the Director of the Central Intelligence Agency. The letter is dated 11/11/61 and is addressed to the Director of the Central Intelligence Agency. The letter is signed by the President of the United States.

3. The third part of the document is a letter from the Director of the Central Intelligence Agency to the President of the United States. The letter is dated 11/11/61 and is addressed to the President. The letter is signed by the Director of the Central Intelligence Agency.

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X. Reaction of 3-bromine-5-acetoxy-8-hydroxy-cis 3,4,5,8,9,10-hexahydro-1-naphthoic-acid lactone with silver(I)-acetate. Coll Cz chem 26 no.1:91-97 Ja '61. (EEAI 10:9)

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(Hypotension) (Alkaloids) (Bromine) (Lactones)
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(Reserpine) (Deserpidine) (Alkaloids)

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Diabetic osteoarthropathy. Cas. Lek. Cesk. 101 no.11:331-337 16 Mr '62.

1. II interni oddeleni KUNZ Usti n. Lab., prednosta MUDr. A. Faf1.
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(DIABETES MELLITUS pathol) (JOINTS pathol)

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(ELECTROPHORESIS,
of blood lipids in arteriosclerosis (Slov))
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1. Z Zakladu Radiologii Lekarskiej (kierownik: doc.dr.med.
L.Zgliczynski) i z Kliniki Neurologicznej AM w Warszawie
(kierownik: prof.dr.med. I.Hausman-Petrusewiczowa).

*

RAJSZYS, J.

3788

621.833.01:620.174

Rajszys J. Influence of Tooth Profile Corrections on Bending Stresses
in Gear Wheels. MN

„Wplyw poprawiania zarysów na naprężenia gnące w kołach zębatych”. Technika Motoryzacyjna. No. 7, 1954, pp. 197—200, 8 figs., 1 tab.

In order to raise the bending strength of a wheel tooth, the author applied corrections enabling considerably better results to be obtained as regards the strength of material, with the same tooth module and number of teeth. This article discusses the influence of correction on bending stress in face toothed wheels and in normal toothed wheels. Methods are given for calculating tooth bending stresses, together with ways and means of correcting the tooth profile. The example taken is a tooth profile correction of the gear box tooth wheels of the Polish „Star 20” motor lorry. The correction gave a decrease in bending strains amounting to approx. 30% in bottom gear and approx. 18% in top gear.

sgt

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p. 197. (TECHNICA MOTORYZACYJNA, Vol. 4, No. 7, July 1954, Warszawa, Poland)

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A case of Ebstein's anomaly. Pol. tyg. lek. 17 no.29:1151-1156 16
Jl '62.

1. Z II Kliniki Chorob Wewnetrznych; kierownik: prof. dr med.
D. Aleksandrow, z I Kliniki Chirurgicznej; kierownik: doc. dr
med. J. Nielubowicz i z Zakladu Radiologii Lekarskiej AM w
Warszawie; kierownik: prof. dr nauk med. W. Zawadowski.
(EBSTEIN'S ANOMALY)

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